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NOTICE OF ALLOWANCE AND FEE(S) DUE

35825

7590

06/12/2009

LAW FIRM OF DAN SHIFRIN 6208 Devinney Circle ARVADA, CO 80004 EXAMINER

MYINT, DENNIS Y

ART UNIT PAPER NUMBER

2162

DATE MAILED: 06/12/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,900	09/29/2003	Robert F. Bartfai	TUC920030109US1	4827

TITLE OF INVENTION: AUTONOMIC INFRASTRUCTURE ENABLEMENT FOR POINT IN TIME COPY CONSISTENCY

L	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 35825 7590 06/12/2009 Certificate of Mailing or Transmission LAW FIRM OF DAN SHIFRIN I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 6208 Devinney Circle ARVADA, CO 80004 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/674.900 09/29/2003 Robert F. Bartfai TUC920030109US1 4827 TITLE OF INVENTION: AUTONOMIC INFRASTRUCTURE ENABLEMENT FOR POINT IN TIME COPY CONSISTENCY APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 09/14/2009 **EXAMINER** ART UNIT CLASS-SUBCLASS MYINT, DENNIS Y 707-104100 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/674,900	09/29/2003		Robert F. Bartfai	TUC920030109US1	4827	
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6208 Devinney Circle				ART UNIT	PAPER NUMBER	
ARVADA, CO 80004				2162		
				DATE MAILED: 06/12/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 255 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 255 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/674,900 Examiner	BARTFAI ET AL. Art Unit	
·	DENING MOUNT	0400	
	DENNIS MYINT	2162	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED) or other appropriate com (IGHTS). This application i) in this application. If not included munication will be mailed in due course	
1. ☑ This communication is responsive to <u>05/14/2009</u> .			
2. X The allowed claim(s) is/are <u>1-3, 5-6, 14-16, 18-19, 22-24,</u>	<u>and 26-27</u> .		
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		d) or (f).	
2. ☐ Certified copies of the priority documents have		tion No.	
3. ☐ Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •		om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		file a reply complying with the requirem	ents
 A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv 			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Rev	iew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u> •		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR areach sheet. Replacement sheet(s) should be labeled as such in			of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e
Attachment(s)	5 🗖 Nation of	Informal Datast Application	
1. Notice of References Cited (PTO-892)		Informal Patent Application	
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	Paper N	Summary (PTO-413), o./Mail Date r's Amendment/Comment	
Paper No./Mail Date			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		's Statement of Reasons for Allowance)
/Donnie Muint/	9. Other		
/Dennis Myint/ Examiner, Art Unit 2162	/Jean B. Fleu Primary Exar	rantin/ niner, Art Unit 2162	
	, mary Exam		

Application/Control Number: 10/674,900 Page 2

Art Unit: 2162

DETAILED ACTION

1. Claims 1-29 were pending in this application. In the amendment filed on May 14, 2009, claims 7, 20, and 28 were incorporated into independent claims 1, 14, and 22. Claims 4, 8-13, 17, 21, 25, and 29 were cancelled. Claims 1, 5, 14, 18, 22, and 26 were amended. As such, claims 1-3, 5-6, 14-16, 18-19, 22-24, and 26-27 are currently pending. Claims 1, 14, and 22 are independent claims.

Drawings

2. Drawings filed on September 29, 2003, are accepted.

Specification

3. Specification filed on September 29, 2003, is considered and accepted.

Allowable Subject Matter

4. Claim 1-3, 5-6, 14-16, 18-19, 22-24, and 26-27 are allowed.

The following is the statement of reasons for allowance.

As per claim 1, the prior art of record (Milillo et al., (hereinafter "Milillo", U.S. Patent Number 6643671) in view of Asselin et al., (hereinafter "Asselin", "Implementing Concurrent Policy", IBM Document Number GG24-3990-00, December 1993) and further in view of Taylor (U.S. Patent Application Publication Number 2004/0220981)), alone or in combination, does not teach or fairly suggest the combination of steps as recited in the claim. Prior art of record does not teach the following limitations:

"d) deciding whether the attempt prepare the FlashCopy source volume is successful;

- e) reverting the FlashCopy operation if the preparation of the FlashCopy source volume is unsuccessful, whereby the prior consistency group is maintained in the FlashCopy target volumes"
 - f) repeating steps (c) through e) for each other FlashCopy source volume".

The dependent claims of claim 1, being definite, further limiting, and fully enabled by the specification, are also allowed.

As per claim 14, the prior art of record Milillo in view of Asselin and further in view of Taylor, alone or in combination, does not teach or fairly suggest the combination of steps as recited in the claim. Prior art of record does not teach the following limitations:

- "d) deciding whether the attempt prepare the FlashCopy source volume is successful;
- e) reverting the FlashCopy operation if the preparation of the FlashCopy source volume is unsuccessful, whereby the prior consistency group is maintained in the FlashCopy target volumes"
 - f) repeating steps (c) through e) for each other FlashCopy source volume".

The dependent claims of claim 14, being definite, further limiting, and fully enabled by the specification, are also allowed.

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Art Unit: 2162

As per claim 22, the prior art of record Milillo in view of Asselin and further in view of Taylor, alone or in combination, does not teach or fairly suggest the combination of steps as recited in the claim. Prior art of record does not teach the following limitations:

"d) deciding whether the attempt prepare the FlashCopy source volume is successful;

e) reverting the FlashCopy operation if the preparation of the FlashCopy source volume is unsuccessful, whereby the prior consistency group is maintained in the FlashCopy target volumes"

f) repeating steps (c) through e) for each other FlashCopy source volume".

The dependent claims of claim 22, being definite, further limiting, and fully enabled by the specification, are also allowed.

Any comments considered necessary by applicant must submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reason for Allowance".

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Art Unit: 2162

Contact Information

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dennis Myint whose telephone number is (571) 272-

5629. The examiner can normally be reached on 8:30AM-5:30PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-5629.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/Dennis Myint/

Examiner, Art Unit 2162

/Jean B. Fleurantin/

Primary Examiner, Art Unit 2162